


# Inspection of Pesticides, Pool Products and Pet Preparations 1983

By Lester Hankin

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## INSPECTION OF PESTICIDES, POOL PRODUCTS, AND PET PREPARATIONS--1983

Results of chemical analysis of 210 official samples of pesticides, pool products, and pet preparations collected during 1983 by inspectors of the Connecticut Department of Environmental Protection are presented in this Bulletin.

Table 1 shows individual samples representing 306 guarantees for active ingredients from 49 manufacturers. Following the names of the manufacturers are the brands of the products and the active ingredients. The percentage of the guarantee found for each active ingredient is then shown. Deficiencies are underlined with a single line and excesses are in parenthesis. Deficiencies are based on Laboratory Verification Guidelines established by the U.S. Environmental Protection Agency. Only 5.2% of 211 samples were deficient and 1.4% excessive.

Table 2 summarizes the number of samples tested from each manufacturer the number of guarantees for active ingredients, the number of deficiencies (-) or excesses (+), and the average percent of guarantee.

Analyses were performed by M. Fuzesi, R. Hastings, and M.A. Illig. Samples were collected by M. Beott and D. Griswold. Pesticide laws are administered by the Commissioner of the Department of Environmental Protection.

Lester Hankin  
Chief, Analytical Chemistry



Table 1. Analysis of Individual Samples

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
<b>AGWAY</b>		
Agway Ant & Soil Insect Granules--Diazinon	5	5.1
Agway Asparagus Berry Weeder--Simazine	4	4.3
Agway Bulb Dust		
--Methoxychlor	5	5.0
--Thiram	10	10.3
Agway Cluster Fly Insect Tape--Diazinon	10	10.1
Agway Dairy Bactericide--Calcium Hypochlorite	50	68.5
Agway Diazinon Dust--Diazinon	4	4.2
Agway Dormant Oil--Petroleum Distillate	98.8	98.8
Agway Dual Garden Orchard Spray		
--Captan	15.0	15.1
--Malathion	7.5	7.5
--Methoxychlor	15.0	14.8
Agway Fruit & Ornamental Spray with Imidan--Imidan	12.5	12.3
Agway Fruit Tree Spray		
--Captan	11.35	11.72
--Malathion	6.00	5.95
--Methoxychlor	12.00	11.70
--Carbaryl	3.00	3.20
Agway Garden & Lawn Insect Spray--Diazinon	25	25.8
Agway Garden Insect Spray with Sevin--Carbaryl	50	51.0
Agway Garden Weed Killer--Dacthal	5	5.0
Agway Insect Spray with Malathion--Malathion	55	56.0
Agway Iris Borer & Leaf Miner Spray--Dimethoate	23.4	23.0
Agway Lawn & Garden Insect Spray--Diazinon	25.0	26.5
Agway Lawn Weed Killer		
--2,4-D <sup>a</sup>	20.3	20.8
--Dicamba	1.9	1.8
Agway Liquid Sevin 4F--Carbaryl	42.6	42.1
Agway Maneb Garden Fungicide--Maneb	80.0	76.6
Agway 25% Methoxychlor Spray--Methoxychlor	25	24.7
Agway Mole Control--Zinc Phosphide	2	2.6
Agway Organic Garden Spray		
--Pyrethrins	1.0	1.0
--Piperonyl Butoxide--technical	10	10.0
Agway Pantry Pest Spray		
--Tetramethrin	0.200	0.195
--Phenothrin	0.191	0.185
Agway Rose & Flower Dust		
--Folpet	7.50	7.80
--Carbaryl	3.00	3.20
--Kelthane	1.00	1.10
Agway Rotenone Dust--Rotenone	1.00	1.06
Agway Seed Potato Dust--Coordination product of Zinc & Manganese--Ethylenebisdithiocarbamate	8.0	6.7
Agway Total Weed Killer--Prometon	1.6	1.65
Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
Agway Tree & Shrub Spray		
--Meta Systox	6.0	6.1
--Methoxychlor	5.0	5.1
--Kelthane	0.9	0.88
Agway Vegetable Disease Control--Chlorothalonil	75.0	76.4
Agway Vegetable Garden Dust		
--Malathion	5.6	6.2
--Methoxychlor	5.0	5.4
--Captan	7.0	7.6
Agway Wasp & Hornet Jet Spray--Resmethrin	0.250	0.252
Agway Weed & Brush Killer--Ammonium Sulfamate	46.5	46.7
Agway Zineb Garden Fungicide--Zineb	75.0	79.9
<b>AIREACTOR CORP.</b>		
<b>DDG</b>		
--n-Alkyldimethylbenzylammonium Chloride	2.61	2.50
--n-Alkyldimethylethylbenzylammonium Chloride	2.61	2.50
<b>BLACK LEAF PRODUCTS</b>		
Black Leaf Ant Killer--B Diazinon	12.5	12.7
Black Leaf Crab Grass Killer		
--Octylammoniummethane Arsenate		
--Dodecylammoniummethane Arsenate	4.0	4.2
Black Leaf Fly & Mosquito Spray		
--Resmethrin	0.200	0.208
--Allethrin	0.150	0.145
Black Leaf Liquid Sevin--Carbaryl	22.5	23.0
Black Leaf 50% Malathion Spray--Malathion	50	49.5
Black Leaf Maneb Fungicide--Maneb	80.0	54.2
Black Leaf 25% Methoxychlor--Methoxychlor	25.0	24.6
Black Leaf Spot Weed Killer--2,4-D	0.65	0.67
Black Leaf Tomato & Vegetable Liquid Spray		
--Carbaryl	22.5	22.0
Black Leaf Warf with Prolin		
--Warfarin	0.025	0.024
--(N-(2-quinoxaliny)sulfanilamide		
Sulfaquinoxaline	0.025	0.022
<b>BONIDE CHEMICAL CO.</b>		
Bonide Benomyl 50% WP--Benomyl	50	49.5
Bonide Captan 50% WP--Captan	50	49.3
Bonide Fruit Spray		
--Captan	12.0	13.0
--Malathion	6.0	6.3
--Methoxychlor	12.0	11.5
--Carbaryl	0.3	0.32
Bonide Malathion 50% Insecticide--Malathion	50	51.0

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found	Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
Bonide Moletex--Zinc Phosphide	2	2.6	Ortho Kleenup Spot Weed & Grass Killer--Glyphosate	0.75	0.76
Bonide Organic, Greenhouse, Houseplant & Vegetable Spray Concentrate			Ortho Kleenup Weed & Grass Killer--Glyphosate	0.50	0.58
--Pyrethrins	1.0	1.0	Ortho Outdoor Insect Fogger		
--Piperonyl Butoxide	10.0	9.90	--Resmethrin	0.250	0.279
			--2-Hydroxyethyl-n-octyl Sulfide	0.950	0.920
EURROUGHS WELLCOME CO.			Ortho Pest-B-Gon Roach Bait--Baygon	2	2.0
Pulvex Dri-Shampoo--Rotenone	0.1	0.097	Ortho Phaltan Rose & Garden Fungicide--Folpet	75	76.0
			Ortho Poison Ivy & Poison Oak Killer		
			--2,4-D	0.70	0.75
CARTER WALLACE INC.			--MCPp <sup>b</sup>	0.75	0.80
Lambert Kay Flea & Tick Powder For Cats--Carbaryl	5.0	5.3	Ortho Rose & Flower Jet Duster		
Victory 5 Collar For Cats--Baygon	9.4	9.1	--Carbaryl	2.4	2.6
Victory Insecticide Pump Spray For Cats			--Malathion	3.2	3.1
--Pyrethrins	0.06	0.062	--Folpet	4.0	4.2
--Piperonyl Butoxide--technical	0.60	0.62	--Kelthane	1.2	1.2
Victory Insecticide Spray For Cats			Ortho Rotenone Dust or Spray--Rotenone	1.0	1.0
--Carbaryl	0.500	0.517	Ortho Sevin Garden Spray--Carbaryl	50	52.0
--Pyrethrins	0.050	0.052	Ortho 3 Way Rose & Flower Care		
--n-Octylbicycloheptenedicarboximide	0.166	0.155	--Disyston		
			--Trifluralin	1.00	1.06
CHARTER CORP.			Ortho Tomato Vegetable Dust	0.174	0.172
Florok Wood Preservative Pentachlorophenol			--Captan & Related Derivatives	5.0	5.6
--Pentachlorophenol	4.5	5.5	--Methoxychlor	5.0	5.2
--Other chlorophenols	0.6		--Rotenone	0.75	0.95
			Ortho Vegetable Disease Control--Chlorothalonil	29.6	29.4
CHEVRON CHEMICAL CO.			Ortho Weed-B-Gon Jet Weeder		
Ortho Ant & Roach Killer--Baygon	1.0	1.08	--2,4-D		
Ortho Crab Grass Killer			--MCPp	0.70	0.76
--n-Octylammoniummethane Arsenate			Ortho Whitefly & Mealybug Killer--Resmethrin	0.75	0.82
--Dodecylammoniummethane Arsenate--total arsenic	4.1	5.0		0.050	0.046
Ortho Diazinon Insect Spray--Diazinon	25	26.0	CIBA-GEIGY CORP.		
Ortho Diazinon Soil & Foliage Spray--Diazinon	4	4.0	Diazinon 4E--Diazinon	47.5	47.6
Ortho Flea-D-Con Flea Killer--Resmethrin	0.250	0.245	Spectracide Crawling Insect Control Granules	5	5.0
Ortho Flotox Garden Sulfur--Sulfur	90	93.0	--Diazinon	4	3.9
Ortho Flying & Crawling Insect Killer			Spectracide Garden Insect Dust--Diazinon	0.5	0.60
--Resmethrin & Related Compounds	0.250	0.256	Spectracide Garden, Rose & Houseplant Spray		
Ortho Fruit & Vegetable Insect Control--Diazinon	25	25.8	--Diazinon		
Ortho Funginex Rose Disease Control--Triforine	6.5	6.7	Spectracide Professional Home Pest Control		
Ortho Garden Weed Preventer--Dacthal	5.0	5.0	--Diazinon		
Ortho Home Orchard Spray			--Pyrethrins	0.500	0.493
--Captan & Related Derivatives	15.0	15.5	--Piperonyl Butoxide	0.052	0.050
--Malathion	7.5	8.2	Spectracide Professional Home Pest Control XP	0.261	0.240
--Methoxychlor	15.0	14.8	--Diazinon		
Ortho House Plant & Insect Spray			Spectracide 33 Plus Lawn Killer	1.00	1.14
--Pyrethrins	0.02	0.021	--2,4-D		
--Resmethrin	0.08	0.075	--MCPp	6.25	6.32
Ortho Indoor Plant Insect Spray			--Dicamba	10.83	11.30
--Pyrethrins	0.02	0.022		1.20	1.13
--Rotenone	0.13	0.12			
--Piperonyl Butoxide--technical	0.25	0.27			



Table 1. Analysis of Individual Samples (continued)

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found	Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
<b>CROWN CHEMICALS</b>					
Crown Py-Fly			Dexol Whitefly & Mealybug Spray		
--Pyrethrins	0.05	0.05	--Methoprene	0.100	0.120
--Piperonyl Butoxide	0.50	0.49	--Pentac	0.075	0.076
			--Resmethrin	0.050	0.054
<b>D-CON CO.</b>					
D-Con Four/Gone			DOW CHEMICAL CO.		
--Allethrin	0.300	0.310	Dow Dursban 2E--Dursban	22.4	23.0
--Phenothrin	0.191	0.210	Dow Dursban TC--Dursban	42.0	41.5
D-Con Mouse Prufe--Warfarin	0.054	0.057	<b>ENGINEERING SERVICES &amp; PRODUCTS</b>		
D-Con Mouse Prufe--Warfarin	0.054	0.053	Fly Belts--Methomyl	1.000	1.020
<b>DARWORTH CO.</b>					
Cuprinol Clear Wood Preservative No. 20			FAESY & BESTHOFF		
--Zinc Naphthenate 13.5%, equiv. to 2% metallic Zinc	2	2.0	F & B Liquid Sevin--Carbaryl	22.5	23.2
Cuprinol Semi-Transparent Stain & Wood Preservative Natural Spice W61	0.50	0.50	B & B Eptam 2.3 Granular--Eptam	2.3	2.3
--Bis(tri-butyl-tin)oxide	0.70	0.63	<b>FEC INDUSTRIES</b>		
--Chlorothalonil			Air San		
Cuprinol Semi-Transparent Stain & Wood Preservative Seashell No. 90	0.30	(0.47)	--ortho-Phenylphenol	0.10	0.09
--Bis(tri-butyl-tin)oxide	0.44	present <sup>c</sup>	--p-Tertiary-Amylphenol	0.03	0.03
--Folpet			Capital Punishment Roach & Ant Killer		
Cuprinol Wood Preservative Green No. 10--Copper Naphthenate, 20% min., equiv. to 2% metallic copper--copper	2	2.1	--Pyrethrins	0.05	0.05
			--Diazinon	0.50	0.54
<b>DEXOL INDUSTRIES</b>					
Dexol Cygon Systemic Insecticide--Dimethoate	23.4	23.7	--Piperonyl Butoxide	0.10	0.11
Dexol Dexa-Klor Insect Spray--Dursban	6.7	6.6	--N-Octylbicycloheptenedicarboximide	0.166	0.150
Dexol Kelthane--Kelthane	18.5	18.9	Germa-San Multi Purpose Cleaner		
Dexol Lawn Weed Killer			--Alkylidimethylbenzylammonium chloride	0.125	0.161
--MCPP	3.66	3.90	--Alkylidimethylbenzylammonium chloride	0.125	0.165
--2,4-D	8.07	8.00	Last Rites High-Pressure Insect Bomb--Resmethrin	0.500	0.600
--Dicamba	0.84	0.89	Shazam Wasp-Hornet Spray--Resmethrin	0.150	0.170
Dexol Malathion Insect Control--Malathion	50	51.0	Spearmint Disinfectant Cleaner		
Dexol Multi-Purpose Spray			--Alkylidimethyl-3,4-dichlorobenzylammonium Chloride	1.250	(1.900)
--Meta Systox	11.74	12.10	--Alkylidimethylbenzylammonium chloride	0.625	0.840
--2,6-Dinitro-6-octylphenyl Crotonate <sup>d</sup>	1.197		--Alkylidimethylbenzylammonium chloride	0.625	0.609
--2,6-Dinitro-4-octylphenyl Crotonate <sup>d</sup>	0.083	1.25	The Enforcer Insect Spray	0.20	0.19
Dexol Plant Insect Spray--Nicotine	0.07	(0.11)	--Pyrethrins	1.00	0.950
Dexol Red Spider Mite Spray--Kelthane	0.046	0.040	--Piperonyl Butoxide		
Dexol Systemic Granules--DiSyston	1.0	1.2	<b>GLORION CORP.</b>		
Dexol Tropical Plant Fungicide--Truban	25	25.5	Acme Bordeaux Mixture--Copper	12.75	12.78
			Glorion Weed Stop--Trifluralin	1.75	1.88
			<b>GREYSTONE INDUSTRIES</b>		
			Gypsy Moth Zapper--Creosote	75	76.8

Table 1. Analysis of Individual Samples (continued)

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found	Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
GRiffin CORP. Manex--Maneb	37	35.7	Weed B-Gon Weed Killer --2,4-D --MCPP	0.20 0.20	0.22 0.19
H. KREVIT & CO. Sodium Hypochlorite--available chlorine Sodium Hypochlorite--available chlorine --subsample 1 <sup>e</sup> --subsample 2 --subsample 3	-- ~15 ~15 ~15	6.99 <u>7.17</u> <u>7.15</u> <u>4.35</u>	PRATT-GABRIEL DIV. *MILLER CHEM. & FERT. CO. Cygon 2E-- Dimethoate Parrott Multi-Purpose Maltox --Malathion --Methoxychlor & Related Compounds --Dichloro	23.4 15 20.0 1.80	24.0 15.4 20.2 1.90
HEALTH CHEM CORP.--HERCON DIV. Spray N Kill Gypsy Moth Caterpillar Insecticidal Spray--Carbaryl	22.5	22.7	Pratt Benomyl 50W Systemic Fungicide--Benomyl Pratt Amitrol T Liquid Herbicide--Amitrole Pratt Durban 15EC--Durban Pratt 15% Lindane Borer Spray--Lindane Pratt Malathion 50 Spray--Malathion Pratt Mite Spray--Kelthane Pratt Red Arrow Botanical Insect Spray --Pyrethrins --Rotenone --Piperonyl Butoxide Pratt Tomato Vegetable Liquid Insect Spray --Methoxychlor --Diazinon	50 21.6 13.5 5.0 50 18.5	49.3 21.2 13.4 5.1 50.5 18.8
ICI AMERICAS Talon G Rodenticide Bait Pack (Mini Pellets) --Brodifacoum	0.0047	0.005	Vapo Total Release Aerosol --Vapona --Baygon	20 10	20.2 11.1
LETHELIN PRODUCTS CO. Borerkill--Lindane	2	2.1	RALSTON PURINA CO. Purina Disinfectant --n-Alkyldimethylbenzylammonium Chloride --n-Alkyldimethylbenzylammonium Chloride Purina Rat Control Pellets--Warfarin	6.51 1.00	6.80 1.10
MODERN POOL PRODUCTS A.P.C. --Calcium Hypochlorite --Dichloro Algen II--Alkyldimethylbenzylammonium Chloride Aqua-Chlor--Calcium Hypochlorite Berkite 4 Algicide--Dichloro Berkite 13--Dichloro Pool Care--Sodium Dichloro-s-triazine Trione Summer Set Algicide--Dichloro Super Chloro Pool--Sodium Hypochlorite Super Shok--Calcium Hypochlorite	63.6 1.9 10 65 1.5 4.9 99.5 1.5 12.5 65	66.5 0 9.7 65.9 1.6 4.7 100.0 0.7 <u>7.8</u> 66.5	RESIDEX CORP. Residex Diazinon 4E Insecticide--Diazinon	47.5	48.8
MORTON NORWICH PRODUCTS--TEXIZE DIV. Texize No Pest Strip--DDVP <sup>f</sup>	19.2	19.8	RHONE-POULENC Farm & Home Disinfectant --Coal Tar Phenols --Neutral Coal Tar Oils --Anhydrous Soap	14.0 61.6 14.4	pass <sup>g</sup> pass pass
NIPPON SODA CO. Calcium Hypochlorite	70	<u>66.0</u>	RIGO CO. Kill Ko Amitrol T--Amitrole	21.6	21.4
ORTHO DIV. Ortho Rose & Flower Insect Killer --Pyrethrins --Piperonyl Butoxide Ortho Tomato & Vegetable Insect Killer --Pyrethrins --Piperonyl Butoxide	0.02 0.18 0.02 0.20	0.02 0.20 0.02 0.19			



Table 1. Analysis of Individual Samples (continued)

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found	Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
<b>RITE-OFF</b>			<b>SPECTRUM HOME &amp; GARDEN PRODUCTS (CIBA-GEIGY)</b>		
Rite-Off Rozol Rat & Mouse Bait	0.005	0.005	Spectrum Conquer Liquid Vegetation Killer	2.50	2.54
--Chlorophacinone-Liphadione			--Prometon	1.00	1.01
<b>ROCKLAND CHEM. CO.</b>			--Pentachlorophenol		
Rockland Benomyl Fungicide--Benomyl	50	49.8	<b>STARBAR</b>		
Rockland Weed & Grass Killer			Starbar Fogasect 2-Hour Fogger		
--Promoten	3.50	3.60	--Baygon	1.00	1.10
--Butoxypropyl ester of 2,4-D	1.63	1.54	--DDVP	0.47	0.51
Rockland Zineb Garden Fungicide--Zineb	75.0	75.1	Starbar Vaporette Spray--DDVP	0.465	0.508
<b>S.C. JOHNSON &amp; SONS</b>			<b>SUDBURY LABORATORY</b>		
Raid Professional Strength Ant & Roach Killer			Sudbury Benomyl Garden Spray Fungicide--Benomyl	50	50.4
--2-(1-Methylethoxy)-phenylmethyl Carbamate	0.95	0.99	Sudbury Captain Garden Spray Fungicide--Captan	50.0	50.1
Raid Tomato & Vegetable Fogger--Pyrethrins	0.2	0.23	Sudbury Diazinon Liquid Concentrate Insect Spray		
<b>SCIENCE PRODUCTS CO.</b>			--Diazinon	25.0	24.8
Science Clover Mite & Red Spider Spray--Kelthane	0.25	0.27	Sudbury Kelthane Concentrate Mite Spray--Kelthane	18.5	19.0
Science Dursban Insecticide--Dursban	6.0	6.20	Sudbury Malathion Liquid Concentrate Insect Spray	50.0	51.0
Science Eptam Garden Weed Control--Eptam	2.3	2.20	--Malathion		
Science Fruit, Nut & Garden Spray			Sudbury Sevin Liquid Concentrate Insect Spray	42.6	43.0
--Diazinon	8.30	8.80	--Sevin		
--Kelthane	3.20	3.40	<b>SUPERIOR SALES CO.</b>		
Science Gladiolus & Bulb Dust			Opened container--no brand name		
--Thiram	50	50.4	--Pyrethrins	3.00	3.20
--Methoxychlor	5	5.10	--Piperonyl Butoxide	6.00	5.80
Science Gladiolus & Bulb Dust			--N-Octylbicycloheptenedicarboximide	10.0	9.85
--Thiram	50	49.5	<b>SYNDET PRODUCTS</b>		
--Methoxychlor	5	5.1	San-I-Kleen		
Science Kelthane EC--Kelthane	18.5	18.8	--n-Alkyldimethylbenzylammonium Chloride		
Science 57% Malathion Spray--Malathion	57	58.0	Sani-I-Terge	5.0	5.31
Science 25% Methoxychlor Spray--Methoxychlor	25.0	25.0	--n-Alkyldimethylammonium Chloride	1.5	1.56
Science Rabbit & Deer Repellent--Thiram	20	20.4	Syn-Quat		
Science 1% Rotenone--Rotenone	1.0	1.13	--n-Alkyldimethylbenzylammonium Chloride	10	10.7
Science 5% Sevin Dust--Carbaryl	5.0	5.20	<b>TOMLYN PRODUCTS DIV. OF AID LABS.</b>		
Science Sevin Liquid--Carbaryl	22.	22.4	Tomlyn Flea, Tick & Lice Shampoo		
Science Sevin 50W--Carbaryl	50	49.7	--Pyrethrins	0.054	0.056
Science Seed Protectant--Thiram	50	50.4	--Piperonyl Butoxide--technical	0.108	0.116
Science Systemic Insecticide Granules--Disyston	1	1.12	--n-Octylbicycloheptenedicarboximide	0.180	0.182
Science Truban Fungicide--Truban	30	31.0	<b>UNION CARBIDE AGRICULTURAL PRODUCTS</b>		
Twin Light Sprayall For Fruit			Nu-Lawn Weeder--Bromoxynil Ester of Octanoic Acid	8.4	9.0
--Malathion	4.00	4.30			
--Captan	7.50	7.30			
--Carbaryl	5.00	5.20			
<b>SHELL CHEMICAL CO.</b>					
Pydrin--Cyano(3-phenoxyphenyl)methyl-4-chloro	30	30.9			
alpha(1-methylethyl)benzene Acetate					



Table 1. Analysis of Individual Samples (continued)

Manufacturer, Brand Name & Active Ingredient	Percent Guarantee	Percent Found
VALHAR CHEMICAL CORP.		
Grannick's Bitter Apple Shampoo For Dogs		
--Pyrethrins--subsample 1	0.055	0.051
--subsample 2	0.055	0.057
--Piperonyl Butoxide--subsample 1	0.555	0.172
--subsample 2	0.555	0.182
WALCO-LINCK CORP.		
Tat Ant Traps--Baygon	0.250	0.243
ZEMA CORP.		
Zema Luster Foam Shampoo For Dogs		
--Pyrethrins	0.05	0.046
--Piperonyl Butoxide--Technical	0.10	0.094
--n-Octylbicycloheptenedicarboximide	0.17	0.190
ZOECON CORP.		
Zodiac 75 Day Carpet Spray		
--Precor	0.032	0.030
--Pyrethrins	0.19	0.20
--Piperonyl Butoxide	1.00	1.00
--n-Octylbicycloheptenedicarboximide	1.00	1.10
Zodiac House & Kennel Fogger		
--Ronnel	2.00	2.19
--DDVP & Related Compounds	0.50	0.43
Zodiac Flea & Tick Shampoo		
--Pyrethrins	0.050	0.045
--Piperonyl Butoxide	0.500	0.485
Zodiac Flea & Tick Pump Spray		
--Pyrethrins	0.18	0.193
--Piperonyl Butoxide, technical	1.8	1.70
Zodiac Flea & Tick Spray For Cats		
--Baygon	0.250	0.270
Zodiac IGR Plus		
--Precor	0.15	0.17
--Baygon	1.00	1.10
--DDVP	0.47	0.48
Zodiac 3 Way Tick & Flea Dust For Dogs		
--Imidan	5.0	5.40

- (a) 2,4,-D is 2,4-Dichlorophenoxyacetic Acid.  
 (b) MCPP is Mecoprop,  $\alpha$ -(4-chloro-2,2-methylphenoxy)propionic Acid.  
 (c) Presence of linseed oil in sample prevented quantitative determination of Folpet.  
 (d) The combination of these two compounds is Karthane.  
 (e) Subsample means that more than one container was collected and each analyzed separately.  
 (f) DDVP is O-Dimethyl-2,2-dichlorovinyl phosphate.  
 (g) Quantitative analysis not practical on such a mixture.

**Table 2. Summary for Each Manufacturer of Number of Products Tested. Number of Guarantees for Active Ingredients, Number of Samples Not Meeting Guarantee (Deficient or Excessive), and Average Percentage of Guarantee.**

	Number of products tested	Number of guarantees	Number of guarantees deficient (-) or excessive (+)	Average % of guarantee
Agway	33	48	1-	103
Aireactor Corp.	1	2	0	96
Black Leaf Prod.	10	12	1-	97
Bonide Chem.	6	10	0	105
Burroughs-Wellcome	1	1	0	97
Carter Wallace	4	7	0	101
Charter Corp.	1	1	0	108
Chevron Chem.	27	41	0	104
Ciba-Geigy Corp.	7	11	0	102
Crown Chem.	1	2	0	103
D-Con	3	4	0	104
Darworth	4	6	1+	111
Dexol Indust.	11	17	1+	106
Dow Chem.	2	2	0	101
Engineering Serv. & Prod.	1	1	0	102
Faesy & Besthoff	2	2	0	102
FEC Indust.	7	15	1+	111
Glorion Corp.	2	2	0	104
Greystone Indust.	1	1	0	102
Griffin Corp.	1	1	0	96
H. Krevitt	2	1	1-	42
Health-Chem. Corp.	1	1	0	101
ICI Americas	1	1	0	106
Lethelin Prod.	1	1	0	104
Modern Pool Prod.	9	10	3-	82
Morton Norwich Prod.	1	1	0	103
Nippon Soda	1	1	1-	94
Ortho Div.	3	6	0	102
Pratt-Gabriel Div.	11	17	0	103
Ralston Purina	2	3	0	103
Residex Corp.	1	1	0	103
Rhone-Poulenc	1	3	0	--
Rigo	1	1	0	99
Rite-Off	1	1	0	100
Rockland Chem.	3	4	0	99
S.C. Johnson & Sons	2	2	0	110
Science Prod.	18	23	0	103
Shell Chem.	1	1	0	103
Spectrum Home & Garden Prod.	1	2	0	102
Starbar	2	3	0	109
Sudbury Labs.	6	6	0	101
Superior Sales	1	3	0	101
Syndet Prod.	3	3	0	106
Tomlyn Prod.	1	3	0	104
Union Carbide	1	1	0	107
Valhar Chem. Corp.	1	2	1-	66
Walco-Linck Corp.	1	1	0	97
Zema Corp.	1	3	0	99
Zoecon Corp.	7	15	0	102
Total	210	306		











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